

FILE 'REGISTRY' ENTERED AT 15:48:24 ON 29 DEC 2006  
L45 STRUCTURE UPLOADED  
L46 1 S L45  
L47 21 S L45 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:49:28 ON 29 DEC 2006  
L48 32 S L47  
L49 27 S L48 AND FLUORINAT?  
L50 9 S L49 NOT PY>2003  
L51 0 S L50 AND (SUGAR OR GLUCOSE OR RIBOSE OR SACCHARIDE)  
L52 0 S L50 AND MICROWAVE  
L53 9 S L49 AND MICROWAVE

FILE 'USPATFULL' ENTERED AT 15:53:30 ON 29 DEC 2006  
L54 10 S L47  
L55 3 S L54 AND MICROWAVE  
L56 3 S L54 NOT PY>2003

FILE 'REGISTRY' ENTERED AT 15:58:14 ON 29 DEC 2006  
L57 STRUCTURE UPLOADED  
L58 1 S L57 SUB=L47 FULL

FILE 'CAPLUS, USPATFULL' ENTERED AT 15:59:01 ON 29 DEC 2006  
L59 6 S L58  
L60 6 DUP REM L59 (0 DUPLICATES REMOVED)

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PASSWORD:

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	186.21	467.31
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-15.75	-36.75

=> file registry

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	186.21	467.31
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-15.75	-36.75

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STRUCTURE FILE UPDATES: 28 DEC 2006 HIGHEST RN 916479-39-5  
DICTIONARY FILE UPDATES: 28 DEC 2006 HIGHEST RN 916479-39-5

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

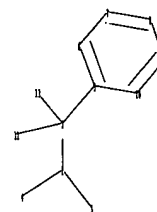
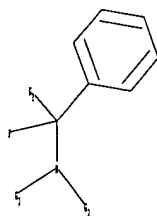
Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

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predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10537437fulorinator.str



```

chain nodes :
1  2  3  4  11  13
ring nodes :
5  6  7  8  9  10
chain bonds :
1-2  1-3  1-4  2-5  2-11  2-13
ring bonds :
5-6  5-10  6-7  7-8  8-9  9-10
exact/norm bonds :
1-2  1-3  1-4  2-13
exact bonds :
2-5  2-11
normalized bonds :
5-6  5-10  6-7  7-8  8-9  9-10

```

G1:H,Cl,Br,F,I

G2:CH<sub>3</sub>,CH<sub>2</sub>,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph

Match level :

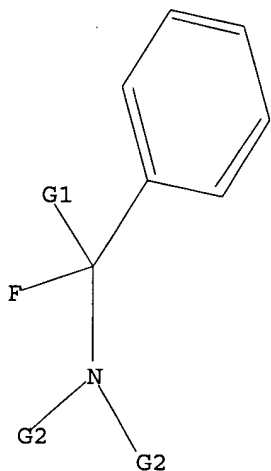
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:CLASS 13:CLASS

L45 STRUCTURE UPLOADED

=> d l45

L45 HAS NO ANSWERS

L45 STR



G1 H, Cl, Br, F, I

G2 Me, CH<sub>2</sub>, n-Pr, i-Pr, n-Bu, i-Bu, s-Bu, t-Bu, Ph

Structure attributes must be viewed using STN Express query preparation.

=> s l45

SAMPLE SEARCH INITIATED 15:48:49 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 196 TO ITERATE

100.0% PROCESSED 196 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 3081 TO 4759

PROJECTED ANSWERS: 1 TO 80

L46 1 SEA SSS SAM L45

=> d l46

L46 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 704916-04-1 REGISTRY

ED Entered STN: 06 Jul 2004

CN Benzenemethanamine, N,N-diethyl- $\alpha,\alpha$ -difluoro-2-methoxy- (9CI)  
(CA INDEX NAME)

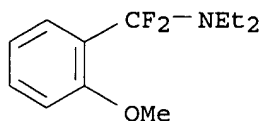
OTHER NAMES:

CN N,N-Diethyl- $\alpha,\alpha$ -difluoro-2-methoxybenzylamine

MF C<sub>12</sub> H<sub>17</sub> F<sub>2</sub> N O

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

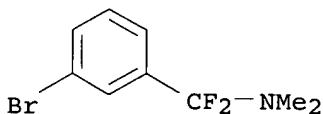
=> s l45 sss full  
FULL SEARCH INITIATED 15:49:02 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 4035 TO ITERATE

100.0% PROCESSED 4035 ITERATIONS 21 ANSWERS  
SEARCH TIME: 00.00.01

L47 21 SEA SSS FUL L45

=> d l47 scan

L47 21 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
IN Benzenemethanamine, 3-bromo- $\alpha,\alpha$ -difluoro-N,N-dimethyl- (9CI)  
MF C9 H10 Br F2 N



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

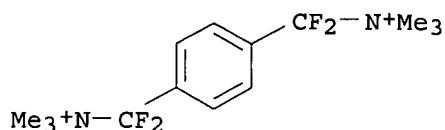
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L47 21 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
IN Benzenemethanamine, N,N-diethyl- $\alpha,\alpha$ -difluoro- (9CI)  
MF C11 H15 F2 N

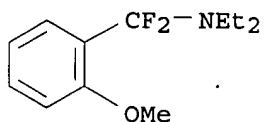
Ph- $\text{CF}_2$ -NEt<sub>2</sub>

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L47 21 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
IN 1,4-Benzenedimethanaminium,  $\alpha,\alpha,\alpha',\alpha'$ -tetrafluoro-  
N,N,N,N',N',N'-hexamethyl- (9CI)  
MF C14 H22 F4 N2  
CI COM

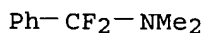


L47 21 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzenemethanamine, N,N-diethyl- $\alpha,\alpha$ -difluoro-2-methoxy- (9CI)  
 MF C12 H17 F2 N O



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L47 21 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzenemethanamine,  $\alpha,\alpha$ -difluoro-N,N-dimethyl- (9CI)  
 MF C9 H11 F2 N



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	169.28	636.59
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-36.75

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FILE COVERS 1907 - 29 Dec 2006 VOL 146 ISS 2  
 FILE LAST UPDATED: 28 Dec 2006 (20061228/ED)

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=> s 147

L48 32 L47

=> s 148 and fluorinat?

49807 FLUORINAT?

L49 27 L48 AND FLUORINAT?

=> s 149 not py>2003

3684204 PY>2003

L50 9 L49 NOT PY>2003

=> s 150 and (sugar or glucose or ribose or saccharide)

257117 SUGAR

414281 GLUCOSE

27333 RIBOSE

9782 SACCHARIDE

L51 0 L50 AND (SUGAR OR GLUCOSE OR RIBOSE OR SACCHARIDE)

=> d 150 1-9 ti

L50 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Fluorination of thiocarbonyl compounds with bis(2-methoxyethyl)aminosulfur trifluoride (Deoxo-Fluor reagent): a facile synthesis of gem-difluorides

L50 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI New deposition systems and processes for transport polymerization and chemical vapor deposition

L50 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Manufacture of fluorinated poly(p-xylylene) polymers for semiconductor devices

L50 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Reactions of N,N-dialkylbenzamides with sulfur tetrafluoride. Formation of dialkyl- $\alpha,\alpha$ -difluorobenzylamines

L50 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Dialkyl- $\alpha,\alpha$ -difluorobenzylamines and dialkyl(trifluoromethyl)amines - novel fluorinating reagents

L50 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Synthetic methods and reactions. I. Selenium tetrafluoride and its pyridine complex. Convenient fluorinating agents for fluorination of ketones, aldehydes, amides, alcohols, carboxylic acids, and anhydrides

L50 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Chemistry of carbonyl fluoride. I. Fluorination of organic compounds

L50 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Fluorinated organic compounds

L50 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI The chemistry of sulfur tetrafluoride. II. The fluorination of organic carbonyl compounds

=> d 150 1 3 5 6 8 ti abs bib

L50 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Fluorination of thiocarbonyl compounds with bis(2-methoxyethyl)aminosulfur trifluoride (Deoxo-Fluor reagent): a facile synthesis of gem-difluorides  
 AB A variety of thiocarbonyl derivs. (thioketone, thioester, thioamide, dithioester, and dithiocarbamate) were converted to the corresponding gem-difluorides in excellent yields on reaction with the fluorinating agent, bis(2-methoxyethyl)aminosulfur trifluoride (I), in the presence of SbCl<sub>3</sub>. Thus, reacting PhC(S)Ph with I gave PhCF<sub>2</sub>Ph in 89% yield.  
 AN 2000:463617 CAPLUS  
 DN 133:192747  
 TI Fluorination of thiocarbonyl compounds with bis(2-methoxyethyl)aminosulfur trifluoride (Deoxo-Fluor reagent): a facile synthesis of gem-difluorides  
 AU Lal, Gauri S.; Lobach, Elyse; Evans, Ann  
 CS Air Products and Chemicals Inc., Allentown, PA, 18195-1501, USA  
 SO Journal of Organic Chemistry (2000), 65(16), 4830-4832  
 CODEN: JOCEAH; ISSN: 0022-3263  
 PB American Chemical Society  
 DT Journal  
 LA English  
 OS CASREACT 133:192747  
 RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Manufacture of fluorinated poly(p-xylylene) polymers for semiconductor devices  
 AB Fluorinated poly(p-xylylenes) (F-PPX) and fluorinated poly(p-fluoroxilylenes) (F-PPFX) are manufactured by (1) selecting as starting material a fluorinating agent (SF<sub>4</sub>, DAST) and compound YC(O)ArC(O)Y (Y = leaving group; Ar = phenylene, fluorine-containing phenylene), (2) processing the starting material to produce a tetrafluoro precursor, (3) further processing the precursor with transport polymerization or chemical vapor deposition method, and (4) polymerizing the reactive intermediate into the fluorinated poly(p-xylylene) polymers. These polymers are used for the manufacture of low dielec. films with high thermal stability and are sufficiently strong to withstand planarization and polishing for the manufacture of integrated circuits.  
 AN 1999:297361 CAPLUS  
 DN 130:325524  
 TI Manufacture of fluorinated poly(p-xylylene) polymers for semiconductor devices  
 IN Lee, Chung J.; Wang, Hui; Foggiano, Giovanni Antonio  
 PA Quester Technology, Inc., USA  
 SO PCT Int. Appl., 69 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9921705	A1	19990506	WO 1998-US21753	19981015
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			



US 6140456	A	20001031	US 1997-957792	19971024
AU 9910878	A	19990517	AU 1999-10878	19981015
PRAI US 1997-957792	A	19971024		
WO 1998-US21753	W	19981015		

RE.CNT 3      THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L50 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Dialkyl- $\alpha,\alpha$ -difluorobenzylamines and dialkyl(trifluoromethyl)amines - novel fluorinating reagents
- AB The use of PhCF<sub>2</sub>NMe<sub>2</sub> and CF<sub>3</sub>Net<sub>2</sub> as fluorinating reagents to replace OH groups in alcs. and carboxylic acids by F has been studied. The results, which are very variable, are compared with those reported for other fluoroamine reagents.
- AN 1984:34109 CAPLUS
- DN 100:34109
- TI Dialkyl- $\alpha,\alpha$ -difluorobenzylamines and dialkyl(trifluoromethyl)amines - novel fluorinating reagents
- AU Dmowski, Wojciech; Kaminski, Maciej
- CS Inst. Org. Chem., Pol. Acad. Sci., Warsaw, 00-961, Pol.
- SO Journal of Fluorine Chemistry (1983), 23(3), 219-28  
CODEN: JFLCAR; ISSN: 0022-1139
- DT Journal
- LA English
- OS CASREACT 100:34109
- L50 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Synthetic methods and reactions. I. Selenium tetrafluoride and its pyridine complex. Convenient fluorinating agents for fluorination of ketones, aldehydes, amides, alcohols, carboxylic acids, and anhydrides
- AB Selenium tetrafluoride is a general purpose, convenient fluorinating agent for a wide variety of compds., such as ketones, aldehydes, amides, alcs., carboxylic acids, and anhydrides. Addition of pyridine, which forms a complex with SeF<sub>4</sub>, in fluorination of alcs. generally prevents isomerization and allows preparation of primary fluorides.
- AN 1974:81959 CAPLUS
- DN 80:81959
- TI Synthetic methods and reactions. I. Selenium tetrafluoride and its pyridine complex. Convenient fluorinating agents for fluorination of ketones, aldehydes, amides, alcohols, carboxylic acids, and anhydrides
- AU Olah, George A.; Nojima, Masatomo; Kerekes, Istvan
- CS Dep. Chem., Case West. Reserve Univ., Cleveland, OH, USA
- SO Journal of the American Chemical Society (1974), 96(3), 925-7  
CODEN: JACSAT; ISSN: 0002-7863
- DT Journal
- LA English
- L50 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Fluorinated organic compounds
- AB The title compds. can be used as chemical intermediates. Cyclohexanone 40, COF<sub>2</sub> 65, and HCONMe<sub>2</sub> 4-5 parts are placed in a reactor containing N, the reactor is closed, the mixture heated at 50° 12 hrs. under autogenous pressure, cooled, the volatile materials are removed, and the remaining liquid is distilled to give 1-fluorocyclohexyl fluoroformate (I), b<sub>27</sub> 59-63°, 52 parts. I 17, hexane 30-5, and BF<sub>3</sub>-etherate 4.8 parts are heated at 45-7° 3 hrs., the mixture is cooled, the upper phase separated, agitated with powdered NaF, the NaF filtered off, the filtrate evaporated, and the residue distilled through a fractionating column to give 1,1-di-fluorocyclohexane, b. 101-7°, n<sub>25D</sub> 1.3900-1.3895, 5.6 parts. Similarly prepared are Ph<sub>2</sub>CF<sub>2</sub>, b<sub>15</sub> 100-1°, n<sub>25D</sub> 1.5360-1.5368; PhCHF<sub>2</sub>, b<sub>15</sub> 35-6°; 4-Me<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHF<sub>2</sub>; (FCH<sub>2</sub>)<sub>2</sub>O; PhCF<sub>3</sub> and BzF;

F3C(CF2)2COF; F3C(CF2)6COF, b. 108-9°; FOC(CF2)3COF, b. 47-9°; FOC(CF2)2COF, b. 30-5°; 2-F3CC6H4COF and phthaloyl fluoride; Me(F2CH)NCOF and Me(HCO)NCOF; Me(MeCF2)NCOF, b. 97-100° and MeAcNCOF, b. 136-8°; F2CHNMe2, b. 47-51.5°; PhCF2NMe2, b. 63°; N-fluoroformyl-1,1-difluorohexamethyleneimine, b0-5 50°; and Me2NCF2NMe2, b. 101-3°.

AN 1963:39841 CAPLUS  
 DN 58:39841  
 OREF 58:6752d-f  
 TI Fluorinated organic compounds  
 PA E. I. du Pont de Nemours & Co.  
 SO 11 pp.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	GB 909364		19621031	GB 1960-38526	19601109
	US 3213062		19651019	US 1959-852939	19591116
PRAI	US		19591116		

=> s 150 and microwave  
 114647 MICROWAVE  
 L52 0 L50 AND MICROWAVE

=> s 149 and microwave  
 114647 MICROWAVE  
 L53 9 L49 AND MICROWAVE

=> d 153 1-9 ti

L53 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Preparation of fluoroamides or fluoroamines from amino alcohols

L53 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Preparation of  $\alpha,\alpha$ -difluoromethyl compounds from aldehydes

L53 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Process for producing optically active fluoroalkyl compounds

L53 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Direct conversion of epoxides to vic-difluorides

L53 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Synthesis of gem-difluorides from aldehydes using DFMB

L53 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Deoxyfluorination of alcohols using N,N-diethyl- $\alpha,\alpha$ -difluoro-(m-methylbenzyl)amine

L53 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Method of fluorination using N,N-diethyl- $\alpha,\alpha$ -difluorobenzylamines

L53 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Fluorination under microwave irradiation

L53 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Selective synthesis of fluorinated carbohydrates using N,N-diethyl- $\alpha,\alpha$ -difluoro-(m-methylbenzyl)amine

=> d 153 1 3 4 5 6 7 8 9 ti abs bib

L53 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Preparation of fluoroamides or fluoroamines from amino alcohols

AB FCR3R4(CR5R6)nNR7COR0 and FCR3R4(CR5R6)nNR7CH2R0 [R0, R3-R7 = H, (un)substituted alkyl, aryl, alkylamino, arylamino; 2 of R3-R7 may be linked to form ring; n = 1, 2], useful as building blocks, are prepared from HO-CR3R4(CR5R6)n-NHR7 (R3-R7, n = same as above) using F2CR0NR1R2 (R0 = same as above; R1, R2 = similar group as in R0), followed by optional reduction. Optically active products are obtained from optically active amino alcs. Thus, N,N-diethyl- $\alpha,\alpha$ -difluoro-(3-methyl)benzylamine was added to 2-anilinoethanol and exposed to microwave at 70° for 10 min to give 90% N-(2-fluoroethyl)-N-phenyl-(3-methyl)benzamide.

AN 2006:597008 CAPLUS

DN 145:83123

TI Preparation of fluoroamides or fluoroamines from amino alcohols

IN Hara, Shoji; Fukuhara, Tsuyoshi; Hidaka, Toshio

PA Hokkaido University, Japan; Mitsubishi Gas Chemical Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

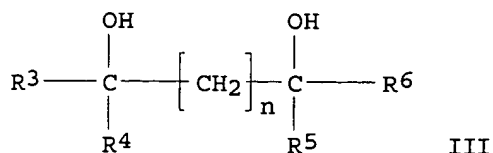
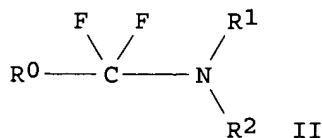
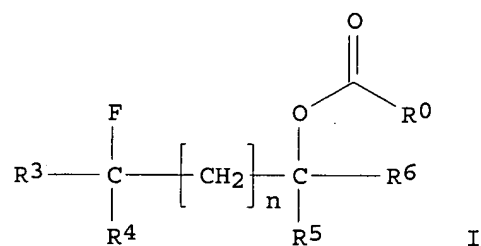
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006160709	A	20060622	JP 2004-358344	20041210
PRAI	JP 2004-358344		20041210		
OS	MARPAT 145:83123				

L53 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for producing optically active fluoroalkyl compounds

GI



AB A process for the preparation of optically active compds. I [R0 = H, (un)substituted alkyl, etc.; R3-R6 = H, (un)substituted alkyl, etc.; n =

0-3] from fluoroamine II [R0, R1, R2 = H, (un)substituted alkyl, etc.] and chiral diol III [R3-R6, n = same as above] was disclosed. For example, a mixture of (2S,4S)-pentane-2,4-diol (1 mmol) and N,N-diethyl- $\alpha,\alpha$ -difluoro-(3-methyl)benzylamine (1 mmol) in dioxane (1 mL) was irradiated with microwave (2.45 GHz, 500W) for 10 min. The reaction mixture was cooled, followed by treatment with N,N-diethyl- $\alpha,\alpha$ -difluoro-(3-methyl)benzylamine (1 mmol) for 10 min under microwave and aqueous work-up to give (2S,4R)-2-(3-methylbenzoyloxy)-4-fluoropentane in 78% yield and 100% ee.

AN 2005:1004688 CAPLUS  
 DN 143:305938  
 TI Process for producing optically active fluoroalkyl compounds  
 IN Hara, Shoji; Fukuhara, Tsuyoshi  
 PA Mitsubishi Gas Chemical Company, Inc., Japan  
 SO PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005085171	A1	20050915	WO 2005-JP3480	20050302
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1721885	A1	20061115	EP 2005-719795	20050302
	R: DE, GB				
PRAI	JP 2004-61202	A	20040304		
	WO 2005-JP3480	W	20050302		

OS MARPAT 143:305938  
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L53 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Direct conversion of epoxides to vic-difluorides  
 AB Vic-Difluoro compds. can be directly prepared from epoxides by reaction with Et3N-3HF and DFMBBA under microwave-irradiation conditions.  
 AN 2005:568391 CAPLUS  
 DN 144:369634  
 TI Direct conversion of epoxides to vic-difluorides  
 AU Yu, Hong-Wen; Nakano, Yousuke; Fukuhara, Tsuyoshi; Hara, Shoji  
 CS Division of Molecular Chemistry, Graduate School of Engineering, Hokkaido University, Sapporo, 060-8628, Japan  
 SO Journal of Fluorine Chemistry (2005), 126(6), 962-966  
 CODEN: JFLCAR; ISSN: 0022-1139  
 PB Elsevier B.V.  
 DT Journal  
 LA English  
 OS CASREACT 144:369634  
 RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L53 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Synthesis of gem-difluorides from aldehydes using DFMBBA  
 AB Synthesis of gem-difluorides from aldehydes was effectively achieved using N,N-diethyl- $\alpha,\alpha$ -difluoro-(m-methylbenzyl)amine (DFMBBA) and Et3N-3HF under microwave irradiation or conventional thermal

heating. Both aromatic and aliphatic aldehydes could be converted to the corresponding gem-difluorides in good yields.

AN 2005:434408 CAPLUS  
DN 144:51309  
TI Synthesis of gem-difluorides from aldehydes using DFMB  
AU Furuya, Tsukasa; Fukuhara, Tsuyoshi; Hara, Shoji  
CS Division of Molecular Chemistry, Graduate School of Engineering, Hokkaido University, Sapporo, 060-8628, Japan  
SO Journal of Fluorine Chemistry (2005), 126(5), 721-725  
CODEN: JFLCAR; ISSN: 0022-1139  
PB Elsevier B.V.  
DT Journal  
LA English  
OS CASREACT 144:51309  
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L53 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Deoxyfluorination of alcohols using N,N-diethyl- $\alpha,\alpha$ -difluoro-(m-methylbenzyl)amine  
AB Deoxyfluorination of alcs. was carried out using N,N-diethyl- $\alpha,\alpha$ -difluoro-(m-methylbenzyl)amine (DFMBA). Primary alcs. were effectively converted to fluorides under microwave irradiation or conventional heating. Deoxyfluorination of an anomeric hydroxy group in sugars by DFMBA proceeded at below room temperature and glycosyl fluorides could be obtained in good yields. The deoxyfluorination reaction chemoselectively proceeded and various protecting groups on the sugar can survive under the reaction conditions.

AN 2004:581849 CAPLUS  
DN 141:260951  
TI Deoxyfluorination of alcohols using N,N-diethyl- $\alpha,\alpha$ -difluoro-(m-methylbenzyl)amine  
AU Kobayashi, Shingo; Yoneda, Atushi; Fukuhara, Tsuyoshi; Hara, Shoji  
CS Division of Molecular Chemistry, Graduate School of Engineering, Hokkaido University, Sapporo, 060-8628, Japan  
SO Tetrahedron (2004), 60(32), 6923-6930  
CODEN: TETRAB; ISSN: 0040-4020  
PB Elsevier Science B.V.  
DT Journal  
LA English  
OS CASREACT 141:260951  
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L53 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Method of fluorination using N,N-diethyl- $\alpha,\alpha$ -difluorobenzylamines  
AB Disclosed is a method in which a glucide, examples of which include a monosaccharide, an oligosaccharide, a polysaccharide, a composite saccharide comprising any of these saccharides and a protein or lipid bonded thereto, a polyalc., an aldehyde, ketone, or acid of a polyalc., a derivative or condensate of any of these, is reacted with a fluorinating agent represented by the general formula of  $\text{RCF}_2\text{-Y(R}_1\text{)R}_2$  [y = N, P; R-R<sub>2</sub> are same or different group selected from H and each (un)substituted alkyl and aryl; or  $\geq 2$  of R-R<sub>2</sub> groups are bonded to each other to form a ring] either thermally or by irradiation with microwave or an electromagnetic wave with a wavelength around the microwave region. By the method, fluorination reaction can be safely conducted position-selectively even in a temperature range of 150 to 200°, in which fluorination has conventionally been difficult. The method in which the reactants are irradiated with microwave or an electromagnetic wave with a wavelength around the microwave region is applicable to substrates other than glucides. When a complex compound comprising HF and a base, for example, is reacted with a substrate by irradiation with microwave, fluorination

in a specific position which has been difficult in conventional techniques proceeds highly selectively in a short time efficiently and safely. Thus, 10 mmol Me 2,3-O-isopropylidene- $\beta$ -D-ribofuranoside, 12 mmol N,N-diethyl- $\alpha,\alpha$ -difluoro-3-methylbenzylamine, and 20 mL heptane were added to a glass vessel reaction vessel coated with fluorinated resin, heated with 100° with stirring, and allowed to react for 50 min to give 55% Me 2,3-O-isopropylidene-5-deoxy-5-fluoro- $\beta$ -D-ribofuranoside.

AN 2004:493719 CAPLUS  
 DN 141:38808  
 TI Method of fluorination using N,N-diethyl- $\alpha,\alpha$ -difluorobenzylamines  
 IN Hara, Shoji; Fukuhara, Tsuyoshi  
 PA Mitsubishi Gas Chemical Company, Inc., Japan  
 SO PCT Int. Appl., 50 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004050676	A1	20040617	WO 2003-JP15336	20031201
	W: CN, US				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
	JP 2004182664	A	20040702	JP 2002-352968	20021204
	JP 2004189655	A	20040708	JP 2002-358249	20021210
	EP 1568703	A1	20050831	EP 2003-775984	20031201
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
	CN 1720256	A	20060111	CN 2003-80104679	20031201
	US 2006014972	A1	20060119	US 2005-537437	20050603
PRAI	JP 2002-352968	A	20021204		
	JP 2002-358249	A	20021210		
	WO 2003-JP15336	W	20031201		

OS CASREACT 141:38808; MARPAT 141:38808  
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L53 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Fluorination under microwave irradiation  
 AB Substrates are fluorinated by fluoro compds. under (near-) microwave irradiation 1-Dodecanol was fluorinated by N,N-diethyl- $\alpha,\alpha$ -difluoro-3-methylbenzylamine under microwave irradiation at room temperature for 10 min to give 93% 1-fluorododecane.

AN 2004:330166 CAPLUS  
 DN 140:338752  
 TI Fluorination under microwave irradiation  
 IN Hara, Masaharu; Fukuhara, Katashi  
 PA Mitsubishi Gas Chemical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004123605	A	20040422	JP 2002-290198	20021002
PRAI	JP 2002-290198		20021002		
OS	CASREACT 140:338752; MARPAT 140:338752				

L53 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Selective synthesis of fluorinated carbohydrates using N,N-diethyl- $\alpha,\alpha$ -difluoro-(m-methylbenzyl)amine

AB Deoxyfluorination of a hydroxy group in carbohydrates was carried out using N,N-diethyl- $\alpha,\alpha$ -difluoro-(m-methylbenzyl)amine. A primary hydroxy group in carbohydrates was effectively converted to the corresponding fluoride under microwave irradiation or at 100 °C. Deoxyfluorination of hydroxy groups at the anomeric position proceeded at below room temperature, and glycosyl fluorides could be obtained in good yields. The reaction chemoselectively proceeded, and various protecting groups of carbohydrates can survive under the reaction conditions.

AN 2004:51764 CAPLUS  
 DN 140:271079  
 TI Selective synthesis of fluorinated carbohydrates using N,N-diethyl- $\alpha,\alpha$ -difluoro-(m-methylbenzyl)amine  
 AU Kobayashi, Shingo; Yoneda, Atushi; Fukuhara, Tsuyoshi; Hara, Shoji  
 CS Graduate School of Engineering, Division of Molecular Chemistry, Hokkaido University, Sapporo, 060-8628, Japan  
 SO Tetrahedron Letters (2004), 45(6), 1287-1289  
 CODEN: TELEAY; ISSN: 0040-4039  
 PB Elsevier Science B.V.  
 DT Journal  
 LA English  
 OS CASREACT 140:271079  
 RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD .  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file uspatfull		
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FULL ESTIMATED COST	60.38	696.97
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-9.75	-46.50

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 28 Dec 2006 (20061228/PD)  
 FILE LAST UPDATED: 28 Dec 2006 (20061228/ED)  
 HIGHEST GRANTED PATENT NUMBER: US7155745  
 HIGHEST APPLICATION PUBLICATION NUMBER: US2006294631  
 CA INDEXING IS CURRENT THROUGH 28 Dec 2006 (20061228/UPCA)  
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 28 Dec 2006 (20061228/PD)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2006  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2006

=> s 147  
 L54 10 L47  
 => s 154 and microwave  
 98231 MICROWAVE  
 L55 3 L54 AND MICROWAVE  
 => d 155 1-3 ti abs bib

L55 ANSWER 1 OF 3 USPATFULL on STN  
 TI Method of fluorination  
 AB A method of fluorination comprising reacting monosaccharides, oligosaccharides, polysaccharides, composite saccharides formed by bonding of these saccharides with proteins and lipids and saccharides having polyalcohols, aldehydes, ketones and acids of the polyalcohols, and derivatives and condensates of these compounds with a fluorinating

agent represented by general formula (I) thermally or under irradiation with microwave or an electromagnetic wave having a wavelength around the microwave region. In accordance with the method, the fluorination at a selected position can be conducted safely at a temperature in the range of 150 to 200° C. where the reaction is difficult in accordance with conventional methods. The above method comprising the irradiation with microwave or an electromagnetic wave having a wavelength around the microwave region can be applied to substrates other than saccharides. When a complex compound comprising HF and a base is reacted under irradiation with microwave, fluorination at a specific position which is difficult in accordance with conventional methods proceeds highly selectively, efficiently in a short time and safely.   ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2006:16583 USPTFULL  
TI Method of fluorination  
IN Hara, Shoji, Hokkaido, JAPAN  
Fukuhara, Tsuyoshi, Hokkaido, JAPAN  
PI US 2006014972 A1 20060119  
AI US 2003-537437 A1 20031201 (10)  
WO 2003-JP15336 20031201  
20050603 PCT 371 date  
PRAI JP 2002-352968 20021204  
JP 2003-2002358249 20021210  
DT Utility  
FS APPLICATION  
LREP ANTONELLI, TERRY, STOUT & KRAUS, LLP, 1300 NORTH SEVENTEENTH STREET,  
SUITE 1800, ARLINGTON, VA, 22209-3873, US  
CLMN Number of Claims: 24  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1318

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L55 ANSWER 2 OF 3 USPTFULL on STN

TI Chemicals and processes for making fluorinated poly(para-xylylenes)  
AB New starting materials and chemical processes will be used to make fluorinated poly(para-xylylenes) (F-PPX) and fluorinated poly(para-fluoroxxylylenes) (F-PPFX). The processes will use some very low cost and readily available starting materials, catalysts, chemical reactors, transport polymerization (TP) systems, and chemical vapor deposition (CVD) systems commonly used for making F-PPX. New TP and CVD deposition systems will also be used to make F-PPX and F-PPFX. These polymers are used for the manufacture of low dielectric films with high thermal stability and are sufficiently strong to withstand planarization and polishing for the manufacture of integrated circuits.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2000:146502 USPTFULL  
TI Chemicals and processes for making fluorinated poly(para-xylylenes)  
IN Lee, Chung J., Fremont, CA, United States  
Wang, Hui, Fremont, CA, United States  
Foggiato, Giovanni Antonio, Morgan Hill, CA, United States  
PA Quester Technology, Inc., Fremont, CA, United States (U.S. corporation)  
PI US 6140456 20001031  
AI US 1997-957792 19971024 (8)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Thibodeau, Paul; Assistant Examiner: Rickman, Holly C  
LREP Fliesler, Dubb, Meyer & Lovejoy  
CLMN Number of Claims: 32  
ECL Exemplary Claim: 1  
DRWN 9 Drawing Figure(s); 9 Drawing Page(s)  
LN.CNT 1624



CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L55 ANSWER 3 OF 3 USPATFULL on STN

TI Deposition systems and processes for transport polymerization and chemical vapor deposition

AB The described deposition systems are designed to accommodate new precursors and chemical processes used for transport polymerization and chemical vapor deposition. The systems consist primarily of a reactor, a liquid injector or gas mass flow controller, a cracker and a deposition chamber under sub-atmospheres pressure. The cracker utilizes one or more types of energy, including heat, photons, and plasmas. This invention is especially useful for preparing F-PPX (fluorinated poly(para-xylylenes) and other fluorinated polymer thin films for intermetal dielectric (IMD) and interlevel dielectric (ILD) applications in the manufacture of integrated circuits with features <0.25  $\mu\text{m}$  in size.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2000:87512 USPATFULL

TI Deposition systems and processes for transport polymerization and chemical vapor deposition

IN Lee, Chung J., Fremont, CA, United States

Wang, Hui, Fremont, CA, United States

Foggiato, Giovanni Antonio, Morgan Hill, CA, United States

PA Quester Technology, Inc., Fremont, CA, United States (U.S. corporation)

PI US 6086679 20000711

AI US 1997-958352 19971024 (8)

DT Utility

FS Granted

EXNAM Primary Examiner: Bueker, Richard

LREP Fliesler, Dubb, Meyer, & Lovejoy LLP

CLMN Number of Claims: 76

ECL Exemplary Claim: 1

DRWN 14 Drawing Figure(s); 14 Drawing Page(s)

LN.CNT 2311

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s 154 not py>2003

1202514 PY>2003

L56 3 L54 NOT PY>2003

=> d 156 1-3 ti

L56 ANSWER 1 OF 3 USPATFULL on STN

TI Chemicals and processes for making fluorinated poly(para-xylylenes)

L56 ANSWER 2 OF 3 USPATFULL on STN

TI Deposition systems and processes for transport polymerization and chemical vapor deposition

L56 ANSWER 3 OF 3 USPATFULL on STN

TI 7-phenyl-1, 4-diazepane compounds, process for their preparation, and pharmaceutical compositions containing them

=> d 156 3 ti abs bib

L56 ANSWER 3 OF 3 USPATFULL on STN

TI 7-phenyl-1, 4-diazepane compounds, process for their preparation, and pharmaceutical compositions containing them

AB Neurokinin-antagonistic compounds corresponding to formula I: ##STR1## in which R.<sup>sup.1</sup> is hydrogen or lower alkyl,

R.<sup>sup.2</sup> is hydrogen, lower alkyl, lower alkoxy, halogen or trifluoromethyl, and

R.sup.3 is hydrogen, lower alkyl, lower alkoxy, halogen or trifluoromethyl, or

R.sup.2 and R.sup.3 together are alkylenedioxy with 1 to 2 carbon atoms, bonded to adjacent carbon atoms of the phenyl ring,

R.sup.4 is hydrogen, lower alkyl, lower alkoxy, halogen or trifluoromethyl, and

R.sup.5 is hydrogen, lower alkyl, lower alkoxy, halogen or trifluoromethyl, or

R.sup.4 and R.sup.5 together are alkylenedioxy with 1 to 2 carbon atoms, bonded to adjacent carbon atoms of the phenyl ring,

R.sup.6 is lower alkyl, halogen or trifluoromethyl,

R.sup.7 is lower alkyl, halogen or trifluoromethyl,

A is a --(CH.sub.2).sub.n -- group in which n represents an integer from 1 to 3, or an --NH--(CH.sub.2).sub.m -- group in which m represents an integer from 2 to 3, and

B is an alkylene chain with 1 to 3 carbon atoms optionally substituted by lower alkyl,

and physiologically acceptable salts thereof and processes for the preparation of these compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2000:34549 USPATFULL

TI 7-phenyl-1, 4-diazepane compounds, process for their preparation, and pharmaceutical compositions containing them

IN David, Samuel, Hannover, Germany, Federal Republic of  
Antel, Jochen, Bad Muender, Germany, Federal Republic of  
Brueckner, Reinhard, Hannover, Germany, Federal Republic of  
Ziegler, Dieter, Hemmingen, Germany, Federal Republic of  
Eeckhout, Christian, Lindwedel, Germany, Federal Republic of  
Bielenberg, Gerhard-Wilhelm, Alfeld, Belgium  
Peck, Michael, Braine le Chateau, Belgium

PA Solvay Pharmaceuticals GmbH, Hannover, Germany, Federal Republic of  
(non-U.S. corporation)

PI US 6040303 20000321

AI US 1998-141312 19980827 (9)

PRAI DE 1997-19737334 19970827

DT Utility

FS Granted

EXNAM Primary Examiner: Shah, Mukund J.; Assistant Examiner: Coleman, Brenda

LREP Evenson, McKeown, Edwards & Lenahan, P.L.L.C.

CLMN Number of Claims: 6

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1750

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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DICTIONARY FILE UPDATES: 28 DEC 2006 HIGHEST RN 916479-39-5

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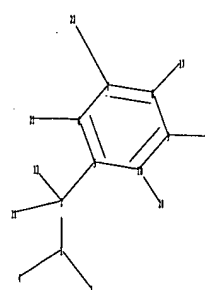
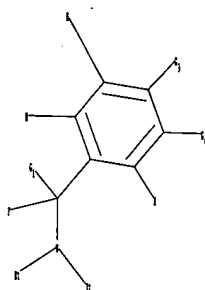
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ring nodes :
5  6  7  8  9 10
chain bonds :
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ring bonds :
5-6 5-10 6-7 7-8 8-9 9-10
exact/norm bonds :
1-2 2-13 8-17 9-19
exact bonds :
1-3 1-4 2-5 2-11 6-21 7-22 10-20
normalized bonds :
5-6 5-10 6-7 7-8 8-9 9-10

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G1:H,Cl,Br,F,I

G2:CH3,CH2,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph

G3:H,CH3

G4:H,EtO

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:CLASS 13:CLASS 17:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS

L57 STRUCTURE UPLOADED

=> s 157 sub=L47

ENTER SUBSET SEARCH SCOPE - SAMPLE, FULL, RANGE, OR (END):full

FULL SUBSET SEARCH INITIATED 15:58:47 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L58 1 SEA SUB=L47 SSS FUL L57

=> d 158

L58 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 90238-20-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzenemethanamine, N,N-diethyl- $\alpha,\alpha$ -difluoro- (9CI) (CA INDEX  
NAME)

MF C11 H15 F2 N

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

Ph-CF<sub>2</sub>-NEt<sub>2</sub>

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus uspatfull

COST IN U.S. DOLLARS

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FULL ESTIMATED COST

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758.57

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

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=> s 158

L59 6 L58

=> dup rem 159

PROCESSING COMPLETED FOR L59

L60 6 DUP REM L59 (0 DUPLICATES REMOVED)

=> d 160 1-6 ti abs bib

L60 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Preparation of fluoroamides or fluoroamines from amino alcohols

AB FCR3R4(CR5R6)nNR7COR0 and FCR3R4(CR5R6)nNR7CH2R0 [R0, R3-R7 = H, (un)substituted alkyl, aryl, alkylamino, arylamino; 2 of R3-R7 may be linked to form ring; n = 1, 2], useful as building blocks, are prepared from HOCR3R4(CR5R6)nNHR7 (R3-R7, n = same as above) using F2CR0NR1R2 (R0 = same as above; R1, R2 = similar group as in R0), followed by optional reduction. Optically active products are obtained from optically active amino alcs. Thus, N,N-diethyl- $\alpha,\alpha$ -difluoro-(3-methyl)benzylamine was added to 2-anilinoethanol and exposed to microwave at 70° for 10 min to give 90% N-(2-fluoroethyl)-N-phenyl-(3-methyl)benzamide.

AN 2006:597008 CAPLUS

DN 145:83123

TI Preparation of fluoroamides or fluoroamines from amino alcohols

IN Hara, Shoji; Fukuhara, Tsuyoshi; Hidaka, Toshio

PA Hokkaido University, Japan; Mitsubishi Gas Chemical Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 2006160709	A	20060622	JP 2004-358344	20041210
PRAI	JP 2004-358344		20041210		
OS	MARPAT 145:83123				

L60 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Synthesis of (fluoroalkyl)amines by deoxyfluorination of amino alcohols

AB Deoxyfluorination of amino alcs. was achieved using N,N-diethyl- $\alpha,\alpha$ -difluorobenzylamine to furnish N-benzoyl(fluoroalkyl)amines selectively.

AN 2006:846753 CAPLUS

DN 145:376685

TI Synthesis of (fluoroalkyl)amines by deoxyfluorination of amino alcohols

AU Nomoto, Takashi; Fukuhara, Tsuyoshi; Hara, Shoji

CS Graduate School of Engineering, Hokkaido University, Sapporo, 060-8628, Japan

SO Synlett (2006), (11), 1744-1746

CODEN: SYNLES; ISSN: 0936-5214

PB Georg Thieme Verlag

DT Journal

LA English

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Reactions of N,N-diethylamidines and N,N,N',N'-tetramethylguanidine with sulfur tetrafluoride

AB Reaction of RC(Net2):NR1 (R = Ph, R1 = SiMe3; R = n-C6F13, R1 = H) with SF4 gave RCF2Net2 (R = Ph, n-C6F13). Similarly, Me2NC(NMe2):NSiMe3 and SF4 gave Me2NCF2NMe2. These reactions proceeded under milder conditions than were necessary for the carbonyl analogs.

AN 2005:179794 CAPLUS  
 DN 143:26260  
 TI Reactions of N,N-diethylamidines and N,N,N',N'-tetramethylguanidine with sulfur tetrafluoride  
 AU Yagupol'skii, L. M.; Petko, K. I.; Dronkina, M. I.  
 CS Inst. Org. Khim., NAN Ukrainy, Kiev, Ukraine  
 SO Ukrainskii Khimicheskii Zhurnal (Russian Edition) (2005), 71(1-2), 116-117  
 CODEN: UKZHAU; ISSN: 0041-6045  
 PB Institut Obshchei i Neorganicheskoi Khimii im. V. I. Vernadskogo NAN Ukrainy  
 DT Journal  
 LA Russian  
 OS CASREACT 143:26260

L60 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Manufacture of  $\alpha,\alpha$ -difluoramines and difluoromethylene- $\alpha,\alpha$ -diazo compounds as fluorination agents  
 AB R1CF2NR2R3 (R1 = H, C1-12 alkyl, C3-14 aryl, etc.; R2, R3 = C1-12 alkyl, C3-14 aryl, C4-15 aralkyl; R1R2 or R1R3 can form C3-16 carbocyclic ring), agents for fluorination of alcs. and carbonyl compds., especially ketones, carboxylic acids and aldehydes, were prepared with improved yields and without taking special precautionary measures by reacting carbonyl compds. R1CONR2R3 (R1-R2 as above) with (COF)2 or COF2 in a solvent. For example, adding cooled (COF)2 to CH2Cl2 solution of Me3CCONMe2 at -10° in a closed steel reactor and stirring the mixture at room temperature and for 16 h

at 40° gave 93% Me3CCF2NMe2 as light yellow liquid  
 AN 2004:564132 CAPLUS  
 DN 141:125376  
 TI Manufacture of  $\alpha,\alpha$ -difluoramines and difluoromethylene- $\alpha,\alpha$ -diazo compounds as fluorination agents  
 IN Ebenbeck, Wolfgang; Marhold, Albrecht; Kolomeitsev, Alexander; Roeschenthaler, Gerd-Volker  
 PA Bayer A.-G., Germany  
 SO Ger. Offen., 6 pp.  
 CODEN: GWXXBX

DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10300113	A1	20040715	DE 2003-10300113	20030107
	EP 1439170	A1	20040721	EP 2003-29973	20031230
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004198975	A1	20041007	US 2004-751824	20040105
	US 7045662	B2	20060516		
	JP 2004210792	A	20040729	JP 2004-1699	20040107
PRAI	DE 2003-10300113	A	20030107		
OS	CASREACT 141:125376; MARPAT 141:125376				

L60 ANSWER 5 OF 6 USPATFULL on STN  
 TI Alpha, alpha-difluoroamines and difluoromethylene-alpha, alpha-diazo compounds  
 AB The present invention relates to a process for preparing  $\alpha,\alpha$ -difluoroamines, difluoromethylene- $\alpha,\alpha$ -diazo compounds and fluorination reagents containing  $\alpha,\alpha$ -difluoroamines and/or difluoromethylene- $\alpha,\alpha$ -diazo compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2004:255444 USPATFULL  
 TI Alpha, alpha-difluoroamines and difluoromethylene-alpha, alpha-diazo compounds  
 IN Ebenbeck, Wolfgang, Leverkusen, GERMANY, FEDERAL REPUBLIC OF  
 Marhold, Albrecht, Leverkusen, GERMANY, FEDERAL REPUBLIC OF

Kolomeitsev, Alexander, Bremen, GERMANY, FEDERAL REPUBLIC OF  
 Roschenthaler, Gerd-Volker, Bremen, GERMANY, FEDERAL REPUBLIC OF

PI US 2004198975 A1 20041007  
 US 7045662 B2 20060516

AI US 2004-751824 A1 20040105 (10)

PRAI DE 2003-10300113 20030107

DT Utility

FS APPLICATION

LREP LANXESS CORPORATION, PATENT DEPARTMENT/ BLDG 14, 100 BAYER ROAD,  
 PITTSBURGH, PA, 15205-9741

CLMN Number of Claims: 17

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 407

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L60 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Reactions of N,N-dialkylbenzamides with sulfur tetrafluoride. Formation  
 of dialkyl- $\alpha,\alpha$ -difluorobenzylamines

AB The KF-catalyzed reaction of amides R2NCOC6H4R1 (I; R = Me, Et, Pr,  
 CH2CH2CF3; R1 = H, Me, OMe, Br, CF3, NO2) with SF4 gave amines  
 R2NCF2C6H4R1. Substituent effects of the R1 in I (R = Me) is discussed.

AN 1984:209316 CAPLUS

DN 100:209316

TI Reactions of N,N-dialkylbenzamides with sulfur tetrafluoride. Formation  
 of dialkyl- $\alpha,\alpha$ -difluorobenzylamines

AU Dmowski, Wojciech; Kaminski, Maciej

CS Inst. Org. Chem., Pol. Acad. Sci., Warsaw, 01224, Pol.

SO Polish Journal of Chemistry (1982), 56(10-12), 1369-78  
 CODEN: PJCHDQ; ISSN: 0137-5083

DT Journal

LA English

OS CASREACT 100:209316

=> d his

(FILE 'HOME' ENTERED AT 10:42:11 ON 29 DEC 2006)

FILE 'REGISTRY' ENTERED AT 10:42:22 ON 29 DEC 2006

EXP CHITOSAN/CN  
 EXP CHITOSAN-IRON/CN  
 EXP CHITOSAN IRON/CN  
 EXP CHITOSAN FE/CN  
 EXP CHITOSAN-FE/CN  
 EXP IRON CHITOSAN/CN  
 EXP IRON-CHITOSAN/CN

L1 1 S CHITOSAN/CN

FILE 'CAPLUS' ENTERED AT 10:43:35 ON 29 DEC 2006

L2 21117 S L1  
 L3 39 S L2 AND TESTOSTERONE  
 L4 14 S L3 NOT PY>2004

FILE 'USPATFULL' ENTERED AT 10:46:13 ON 29 DEC 2006

L5 2931 S L1  
 L6 150 S L5 AND TESTOSTERONE  
 L7 74 S L6 NOT PY>2004  
 L8 22 S L7 AND IRON

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,  
 AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,  
 CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,  
 DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 10:48:46 ON 29 DEC 2006  
 SEA CHITOSAN AND TESTOSTERONE



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1  FILE AQUASCI
1  FILE BIOENG
2  FILE BIOSIS
2  FILE BIOTECHNO
37  FILE CAPLUS
4  FILE DDFU
1  FILE DGENE
1  FILE DISSABS
5  FILE DRUGU
1  FILE EMBAL
13  FILE EMBASE
33  FILE IFIPAT
1  FILE MEDLINE
3  FILE PHIN
5  FILE PROMT
2  FILE SCISEARCH
26  FILE TOXCENTER
1006  FILE USPATFULL
102  FILE USPAT2
29  FILE WPIDS
29  FILE WPINDEX
L9      QUE CHITOSAN AND TESTOSTERONE
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L10      FILE 'EMBASE' ENTERED AT 10:49:38 ON 29 DEC 2006
L11      13 S CHITOSAN AND TESTOSTERONE
          6 S L10 NOT PY>2004

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FILE 'USPATFULL' ENTERED AT 11:34:12 ON 29 DEC 2006

FILE 'EMBASE' ENTERED AT 11:34:12 ON 29 DEC 2006

FILE 'CAPLUS' ENTERED AT 11:35:38 ON 29 DEC 2006

FILE 'EMBASE' ENTERED AT 11:35:38 ON 29 DEC 2006

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:36:06 ON 29 DEC 2006  
SEA (ZINC AND TESTOSTERONE)

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1  FILE ADISCTI
21  FILE AGRICOLA
1  FILE ANABSTR
2  FILE AQUASCI
1  FILE BIOENG
385  FILE BIOSIS
1  FILE BIOTECHABS
1  FILE BIOTECHDS
59  FILE BIOTECHNO
96  FILE CABA
432  FILE CAPLUS
5  FILE CONFSCI
1  FILE CROPU
34  FILE DDFB
50  FILE DDFU
16  FILE DISSABS
34  FILE DRUGB
69  FILE DRUGU
3  FILE EMBAL
457  FILE EMBASE
53  FILE ESBIODASE
8  FILE FROSTI

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2 FILE GENBANK  
 3 FILE HEALSAFE  
 64 FILE IFIPAT  
 1 FILE IMSRESEARCH  
 11 FILE JICST-EPLUS  
 2 FILE KOSMET  
 32 FILE LIFESCI  
 360 FILE MEDLINE  
 1 FILE NUTRACEUT  
 1 FILE OCEAN  
 117 FILE PASCAL  
 1 FILE PHAR  
 1 FILE PHARMAML  
 1 FILE PHIC  
 10 FILE PHIN  
 64 FILE PROMT  
 1 FILE RDISCLOSURE  
 211 FILE SCISEARCH  
 300 FILE TOXCENTER  
 3159 FILE USPATFULL  
 347 FILE USPAT2  
 4 FILE VETB  
 23 FILE VETU  
 77 FILE WPIDS  
 77 FILE WPINDEX  
 L12 QUE (ZINC AND TESTOSTERONE)  
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FILE 'BIOSIS, EMBASE, MEDLINE' ENTERED AT 11:36:57 ON 29 DEC 2006

L13 0 S (ZINC AND TESTOSTERONE AND KELP AND ASCORB?)  
 L14 54 S (ZINC AND TESTOSTERONE AND ASCORB?)  
 L15 42 S L14 NOT PY>2004  
 L16 4 S TESTOSTERONE AND KELP  
 L17 0 S (ZINC AND KELP AND ASCORB? AND (PROSTATE(W) (CARCINOMA OR ADEN  
 L18 50 S (ZINC AND ASCORB? AND (PROSTATE(W) (CARCINOMA OR ADENOCARCINOM  
 L19 49 DUP REM L18 (1 DUPLICATE REMOVED)  
 L20 32 S L19 NOT PY>2004  
 L21 3 S (KELP AND (PROSTATE(W) (CARCINOMA OR ADENOCARCINOMA OR CANCER)  
 L22 799 S IRON AND TESTOSTERONE  
 L23 556 DUP REM L22 (243 DUPLICATES REMOVED)  
 L24 496 S L23 NOT PY>2003  
 L25 6 S L24 AND SUPPLEMENT  
 L26 61 S L24 AND (DEFICIENT OR DEFICIENCY)

FILE 'CAPLUS' ENTERED AT 12:07:26 ON 29 DEC 2006

L27 244 S IRON AND TESTOSTERONE  
 L28 5 S L27 AND SUPPLEMENT  
 L29 21 S L27 AND (DEFICIENT OR DEFICIENCY)  
 L30 359 S TESTOSTERONE AND (ASCORBIC OR ASCORBATE OR (VITAMIN(W)C))  
 L31 274 S L30 NOT PY>2003  
 L32 5 S L31 AND SUPPLEMENT  
 L33 3 S TESTOSTERONE AND (KELP)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,  
 AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,  
 CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,  
 DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 13:52:14 ON 29 DEC 2006  
 SEA KELP AND (ZINC OR (ASCORBATE OR (VITAMIN(W)C) OR ASCORBIC))  
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3 FILE ADISNEWS  
 3 FILE AGRICOLA  
 4 FILE AQUALINE  
 9 FILE AQUASCI  
 2 FILE BIOENG  
 17 FILE BIOSIS

1 FILE BIOTECHABS  
 1 FILE BIOTECHDS  
 6 FILE CABA  
 56 FILE CAPLUS  
 1 FILE DDFU  
 2 FILE DISSABS  
 1 FILE DRUGMONOG2  
 3 FILE DRUGU  
 4 FILE EMBASE  
 3 FILE ESBIODBASE  
 6 FILE FROSTI  
 5 FILE FSTA  
 49 FILE IFIPAT  
 1 FILE IMSPRODUCT  
 5 FILE JICST-EPLUS  
 2 FILE LIFESCI  
 2 FILE MEDLINE  
 2 FILE NUTRACEUT  
 3 FILE OCEAN  
 3 FILE PASCAL  
 1 FILE PHIN  
 86 FILE PROMT  
 6 FILE SCISEARCH  
 22 FILE TOXCENTER  
 657 FILE USPATFULL  
 72 FILE USPAT2  
 6 FILE WATER  
 87 FILE WPIDS  
 87 FILE WPINDEX

L34 QUE KELP AND (ZINC OR (ASCORBATE OR (VITAMIN(W) C) OR ASCORBIC)

FILE 'CAPLUS' ENTERED AT 13:54:00 ON 29 DEC 2006

L35 56 S KELP AND (ZINC OR (ASCORBATE OR (VITAMIN(W)C) OR ASCORBIC))  
 L36 46 S L35 NOT PY>2003  
 L37 6 S L36 AND (ZINC AND (ASCORBATE OR (VITAMIN(W)C) OR ASCORBIC))  
 L38 0 S L36 AND SUPPLIEMENT  
 L39 2 S L36 AND SUPPLEMENT  
 L40 198 S (ZINC AND (PROSTATE(W)CANCER))  
 L41 79 S L40 NOT PY>2003  
 L42 97124 S (ASCORBATE OR ASCORBIC OR (VITAMIN(W)C) AND (PROSTATE(W)CAN  
 L43 60 S ((ASCORBATE OR ASCORBIC OR (VITAMIN(W)C)) AND (PROSTATE(W)CAN  
 L44 33 S L43 NOT PY>2003

FILE 'REGISTRY' ENTERED AT 15:48:24 ON 29 DEC 2006

L45 STRUCTURE UPLOADED  
 L46 1 S L45  
 L47 21 S L45 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:49:28 ON 29 DEC 2006

L48 32 S L47  
 L49 27 S L48 AND FLUORINAT?  
 L50 9 S L49 NOT PY>2003  
 L51 0 S L50 AND (SUGAR OR GLUCOSE OR RIBOSE OR SACCHARIDE)  
 L52 0 S L50 AND MICROWAVE  
 L53 9 S L49 AND MICROWAVE

FILE 'USPATFULL' ENTERED AT 15:53:30 ON 29 DEC 2006

L54 10 S L47  
 L55 3 S L54 AND MICROWAVE  
 L56 3 S L54 NOT PY>2003

FILE 'REGISTRY' ENTERED AT 15:58:14 ON 29 DEC 2006

L57 STRUCTURE UPLOADED  
 L58 1 S L57 SUB=L47 FULL

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAEXO1623

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS	4	AUG 28	ADISCTI Reloaded and Enhanced
NEWS	5	AUG 30	CA(SM)/Cplus(SM) Austrian patent law changes
NEWS	6	SEP 21	CA/Cplus fields enhanced with simultaneous left and right truncation
NEWS	7	SEP 25	CA(SM)/Cplus(SM) display of CA Lexicon enhanced
NEWS	8	SEP 25	CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS	9	SEP 25	CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS	10	SEP 28	CEABA-VTB classification code fields reloaded with new classification scheme
NEWS	11	OCT 19	LOGOFF HOLD duration extended to 120 minutes
NEWS	12	OCT 19	E-mail format enhanced
NEWS	13	OCT 23	Option to turn off MARPAT highlighting enhancements available
NEWS	14	OCT 23	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS	15	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS	16	OCT 30	CHEMLIST enhanced with new search and display field
NEWS	17	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS	18	NOV 10	CA/Cplus F-Term thesaurus enhanced
NEWS	19	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS	20	NOV 20	CAS Registry Number crossover limit increased to 300,000 in additional databases
NEWS	21	NOV 20	CA/Cplus to MARPAT accession number crossover limit increased to 50,000
NEWS	22	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS	23	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS	24	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS	25	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS	26	DEC 18	CA/Cplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS	27	DEC 18	CA/Cplus patent kind codes updated
NEWS	28	DEC 18	MARPAT to CA/Cplus accession number crossover limit increased to 50,000
NEWS	29	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	30	DEC 27	CA/Cplus enhanced with more pre-1907 records
NEWS EXPRESS	NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.		
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		
NEWS X25	X.25 communication option no longer available		